

ABSTRACT

AD
AD
AD
AD
AD
AD
AD
9/28/05

An ultra-high speed image sensor is a frame transfer type. A charge corresponding to an intensity of an incident ray is generated at an element ~~123b~~ of a charge transfer path ~~123~~ corresponding to each window ~~115~~. The generated charge is transferred on the charge transfer path ~~123~~ by voltages applied from the charge transfer electrodes ~~116~~ to ~~118~~. Each of the charge transfer electrodes ~~116~~ to ~~118~~ has a larger size in a charge transfer direction at portions corresponding to the window ~~115~~ than that at portions covered with the intercepting film ~~114~~.